Batch Processing Update

Developments since the Fermilab meeting:

▊ **Running regularly on Plane Trigger files as they become available using frozen release R0.8.0.**

▊ **At Brian's request, reprocessed ~150 data files with three different sets of timing calibration constants.**

▊ **Reprocessed ~490 files with corrupted candidate output files (see next slide).**

▊ **Getting ready to update the farm minossoft installation and ROOT version**

▊ **Anand Malu joined the team.**

Candidate Output Problem:

▌ **Running a simple record header dump job on some candidate files produces SegVs within the first 100 snarls (reported by Hyejoo and Robert).**

▌**Howie and Anand ran a test job on the entirety of the cand output.**

    ▌ **2040 files tested**
    ▌ **1549 "good"**
    ▌ **491 "bad"**
    ▌ **Very few bad runs after early December.**

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Candidate Output Problem:

▌ **Possible explanation: Bug in the Demux package identified by Brett and fixed in the farm by December 4.**

> ▌ date: 2002/11/28 00:28:53;
> Bug fix. Split line with CR:
> "//doesn't work without ItfDeMuxFile->cd();"

▌ **All the 491 data files corresponding to the corrupted cand output were reprocessed. All of them now OK.**

▌ **Howie reported significant differences in size between the original and post-bugfix ntuple output.**

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Candidate Output Quality Control:

▮ **After the main production job is complete:**
 ▮ Run record header dump job on candidate output
 ▮ Read the candidate output and produce an ntuple
 ▮ Transfer to Enstore
 ▮ Read back file from Enstore and repeat first step above (Test possible network problems).

▮ **Ed is working on a more thorough quality testing job of the candidate files.**

Storage Management:

▌ **Liz reported we filled ~85% of our quota in Enstore (1.2 Tb/6 months). Some space can be freed by removing:**

    ▌ **Test Processing output from the ~R0.6.0 installation.**

    ▌ **Output from the timing calibration tests.**

    ▌ **Bad cand output files**

▌ **Look into reducing the cand output size before next round of processing.**

▌ **Liz will place a request for more tapes when we have an estimate for the needed amount of space.**

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Planning for next round of processing:

▌ **Getting ready to start running within a month.**

   ▌ Decide on which frozen release to use.
   ▌ Need Physics Analysis Groups input.
   ▌ Use both Indiana and Cambridge Demux packages?
   ▌ Include Shower Reconstruction in the production job.
   ▌ Use updated shield plex and geometry tables.
   ▌ Thoroughly test installation and output before rerunning on all data.

▌ **Currently working on testing the FNALU development release at the farm.**

Alex Sousa-SC MINOS Meeting